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Potter[otto@demaximis.com]
To: Hoppe, Michael[Hoppe.Michael@epa.gov]
From: Stan Kaczmarek
Sent: Mon 10/7/2013 2:57:38 PM
Subject: RE: Survey Results, Cuts 7 - 9
[131005 Passaic 37P50 HOTSPOT SURVEY.pdf](#)

Mike,

Thanks for the quick feedback. Addressing your specific questions:

- Attached are the post-dredge survey results for the northern tip of Cut 10, Station 37+50.
- The previously provided survey that contained post-dredge bathymetry up to Station 32+00 can be supplemented by additional data that requires survey from land; that data is being collected today. However, it should be noted that as the dredge approached Station 32+00, the near shore areas exhibited significant rock outcroppings that could not be dredged. The inability to pull sediment from such rocky areas should have been witnessed by CDM and others.
- The bulk of Cut 10, from Station 32 to just south of Station 37+50, was poled, was not dredged, and will be sampled as part of the post-dredge sampling event planned for this Wednesday.
- CPG is developing at your request an integrated map showing all the hard pan areas, the poling results, and the extent of all rock outcroppings that could not be dredged.
- Finally, no survey was conducted in Cut 4T because the primary purpose of the additional dredging performed there on October 4 was to determine if more digging into the hardpan area would be productive. If it was, additional dredging would have been performed and an associated post dredge survey conducted. However, after attempting to take additional sediment from designated hard pan areas in Cut 4T that poling indicating might be dredgeable, and determining that sediment recovery with the environmental bucket remained poor even after trying different angles of attack, the dredging attempt was halted and as a result no resurveying was necessary.

Please contact me with additional questions.

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>>> On 10/5/2013 at 10:16 AM, in message
<fc68efe4dcd426dae4f2b137c25105f@BY2PR09MB062.namprd09.prod.outlook.com>,
"Hoppe, Michael" <Hoppe.Michael@epa.gov> wrote:
Stan,

Comments and questions regarding the final survey...

The areas in cuts 7-9 (in comparison to the October 1 survey), had significant improvement and they look good.

Why are there no readings in some areas of cut 10? (near shore 29+50 to 30+00 and 31+50 to 32+00 for example). Also, why are there no results for the Cut 10 northern extents ("tip")?

CDM Comments:

● There seems to be several locations that are undercut towards the east end of cut 10. Is this what Stan is referring to when he states they have already been sampled? MH: I think that Cut 10 hasn't been sampled, rather poled? Stan? And, should the EPA be concerned about any of these locations? MH: Some areas included rocky sections and an outfall area, but it is hard to spatially reference without any physical reference points. I am going to request a comprehensive map with all dredge survey results, poling and sampling locations (related to hard-pan areas) to do final

comparison.

- In the cross-sections plots, there are sections from the recent survey that appear to not measure to the landward side of the dredge template (e.g. see the red line in section plots at STA 29+20 to 30+20). If the survey didn't reach the landward side of the template, how do you know the depths meet project spec?
- These soundings are referred to as the 'final' AD survey of cuts 7-10 yet there are not soundings provided all the way to the eastern extent of cut 10.

Also, I am not clear why GLDD didn't survey 4T after we re-visited it.

I am trying to determine the overall completeness of the dredge/poling/sampling ("hard-pan"). A single map with the complete survey, hard pan sampling locations, poling locations (i.e. the entire what we did or didn't do and therefore sampled) would be preferred at some point. This needs to be on a semi-transparent aerial image like some other deliverables, if possible. I'd even prefer the spatially referenced files and I could just layer them myself in ArcMap if that is possible.

Thank you.

Michael Hoppe

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From: Stan Kaczmarek [mailto:StanK@demaximis.com]

Sent: Friday, October 04, 2013 3:39 PM

To: BudneySL@cdmsmith.com; Hoppe, Michael; Vaughn, Stephanie; jmagalen@seaengineering.com

Cc: PassaroML@cdmsmith.com; Amy Picunas; Frank Tsang; Gary.Foster@CH2M.com; John Rolfe; Willard Potter; Robert Law

Subject: Re: Survey Results, Cuts 7 - 9

Attached are the final survey results for cuts 7 - 10. The near shore undercut areas have already been sampled. The minor undercuts near the no-dredge zone is a result of sloughing due to the inability to step cut outside the dredge limit, i.e. into the No Dredge Zone.

Please contact me with any questions or comments.

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>>> On 10/2/2013 at 9:58 AM, in message <524C269E.B0D : 149 : 51652>, Stan Kaczmarek wrote:

Mike, Stephanie, Jason and Sharon,

Attached are the survey results to-date in Cuts 7. 9. Areas circled in red will be re-dredged today to bring the surface within design specifications. Areas outlined in black are being

investigated to determine if they need to be re-dredged or if they constitute hard pan areas that will need to be poled and sampled. Many of these latter areas already received 2 passes from the dredge bucket during which rock or hard packed gravel were encountered, For undercut areas that cannot be dredged further, poling will be performed and samples will be collected of the overlying material. We will share those sampling plans as they are developed.

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